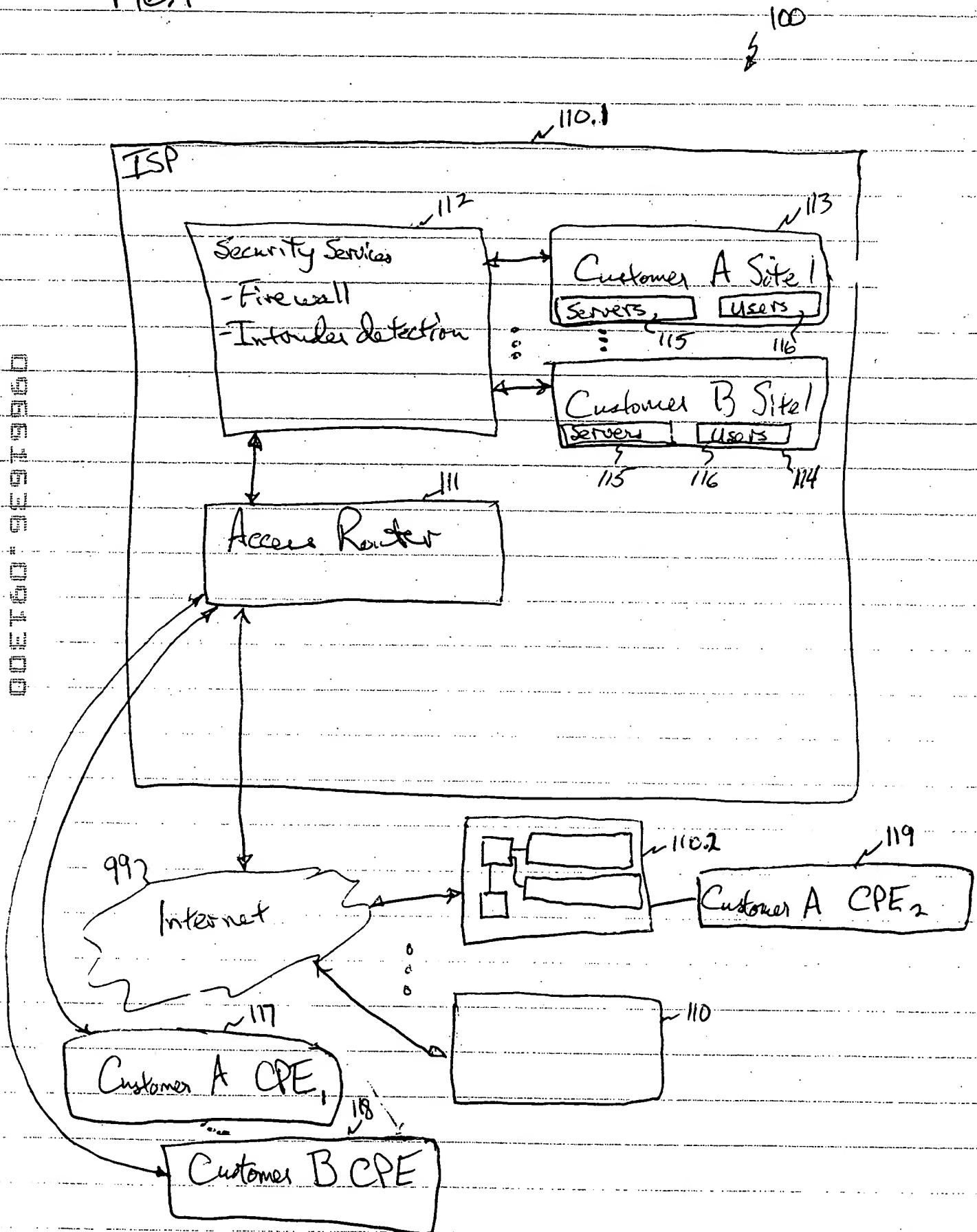
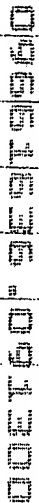


FIG. 1



200



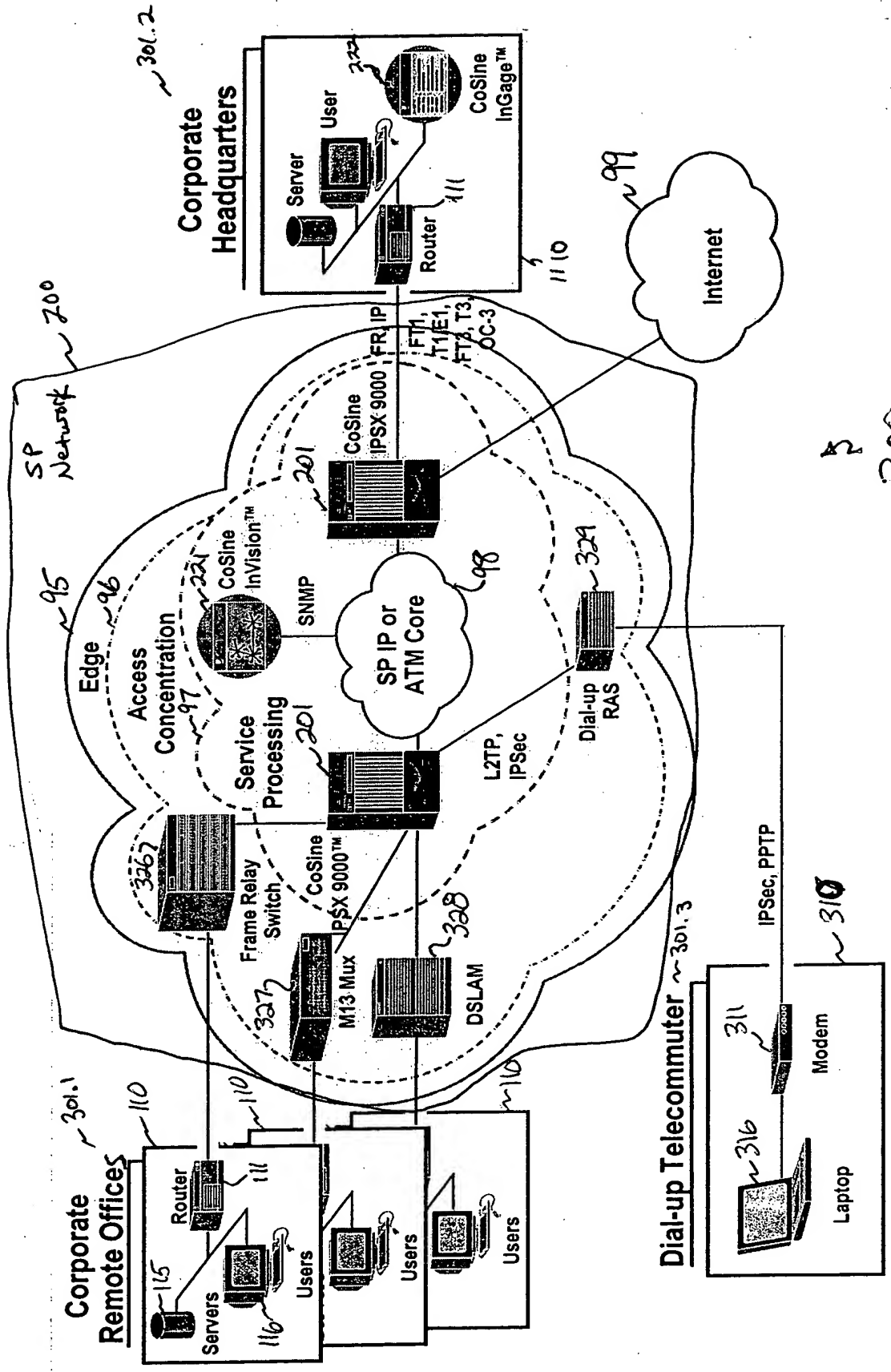
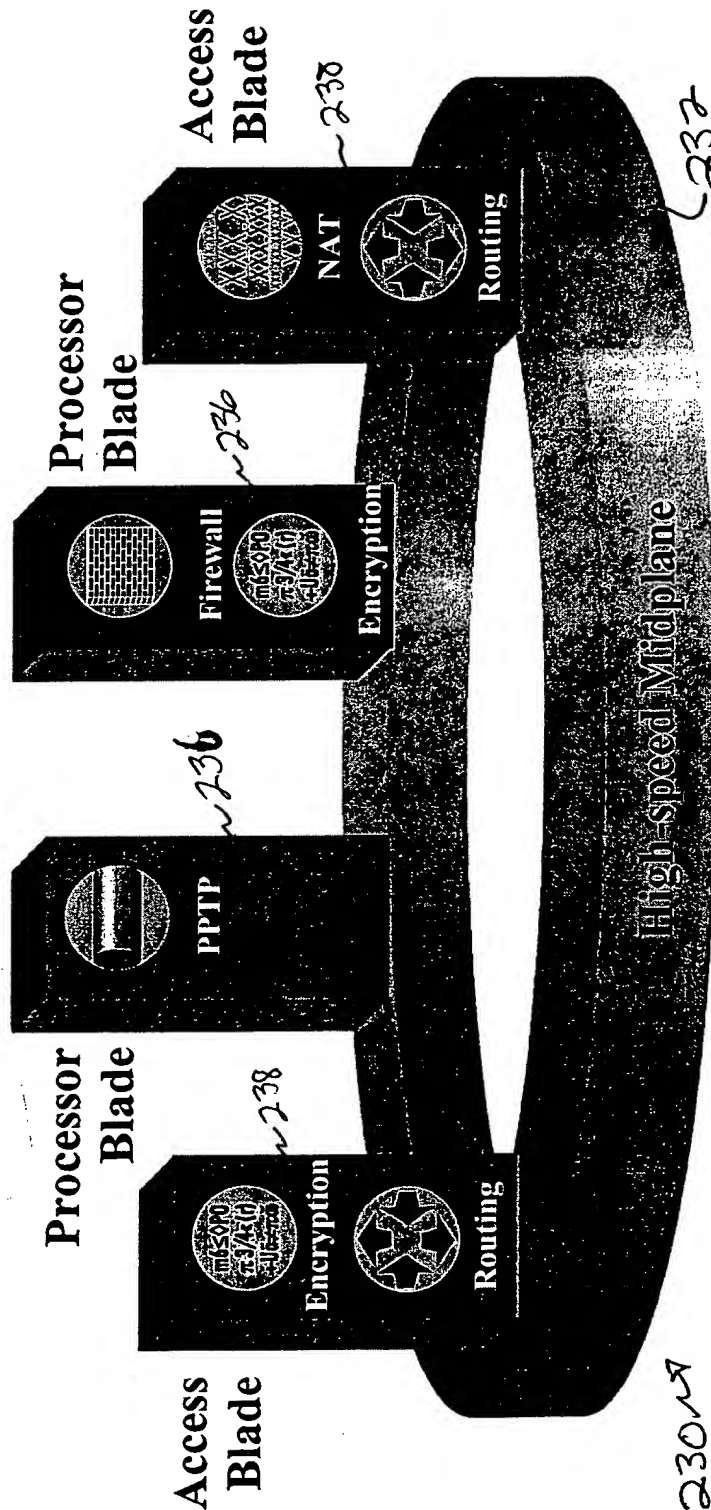


FIG. 3



- Each subscriber has a set of partitioned Virtual Routers (VRs) ²¹⁰
- Each VR is the equivalent of an independent hardware router
- VR as an object group enables customized services per subscriber
- InVision allows ease of service provisioning and maintenance of services across all IPSX units ²⁰⁰ in a SP network ²²⁰
- IP Network Operating System's (IPNOS) open Application Program Interface (API) enables new services to be continually added to the platform

FIG. 5

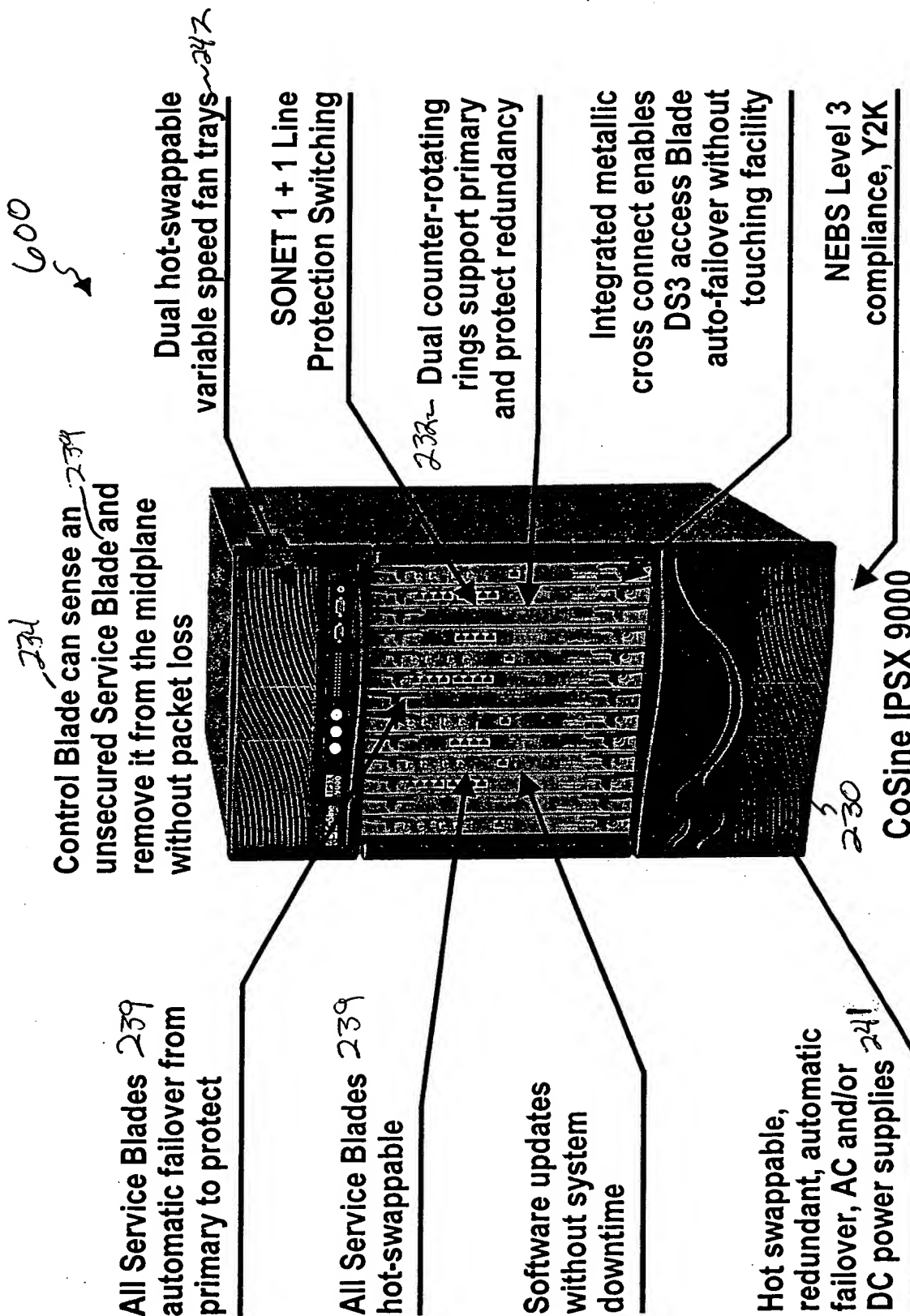
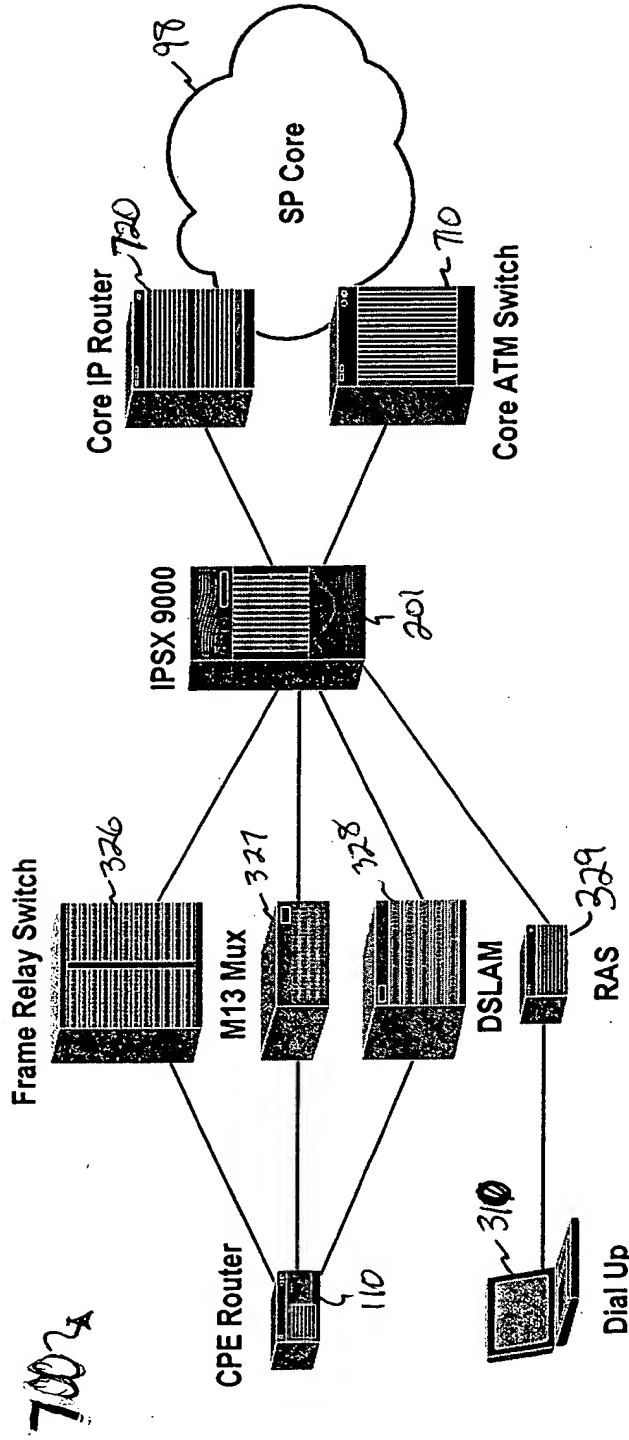


FIG. 6



- Support for a long list of technology standards
- Interoperates with existing access concentration and core network elements
- Offer interworking between Frame Relay and IP networks
- Network Address Translation (NAT) enables enterprise subscribers to leave their network addressing untouched
- Merge IP and legacy networks into one with COS guarantees

FIG 27

■ Hardware:

- ▼ 26-slot, two-sided chassis ~ 230
- ▼ 22 Gbps packet ring midplane ~ 831
- ▼ Three types of Service Blades ~ 832
 - Control ~ 234
 - Access ~ 238
 - Processor ~ 236
- ▼ Specialized processing Daughter Cards for Service Blades
- ▼ Power supply system ~ 240

■ Software

- ▼ IP Network Operating System (IPNOS) ~ 223
- ▼ Virtual Routing ~ 810
- ▼ IP Service Suite ~ 820
 - IPsec (Dial and Dedicated) ~ 821
 - Application Proxy Firewall ~ 822
 - Network Address Translation (NAT) ~ 823
 - PPTP Tunnel Termination ~ 824
 - Bandwidth Management ~ 825
 - Multiprotocol Label Switching (MPLS) ~ 826
 - Frame Relay to IPsec Interworking ~ 827

FIG. 8

FIG. 9

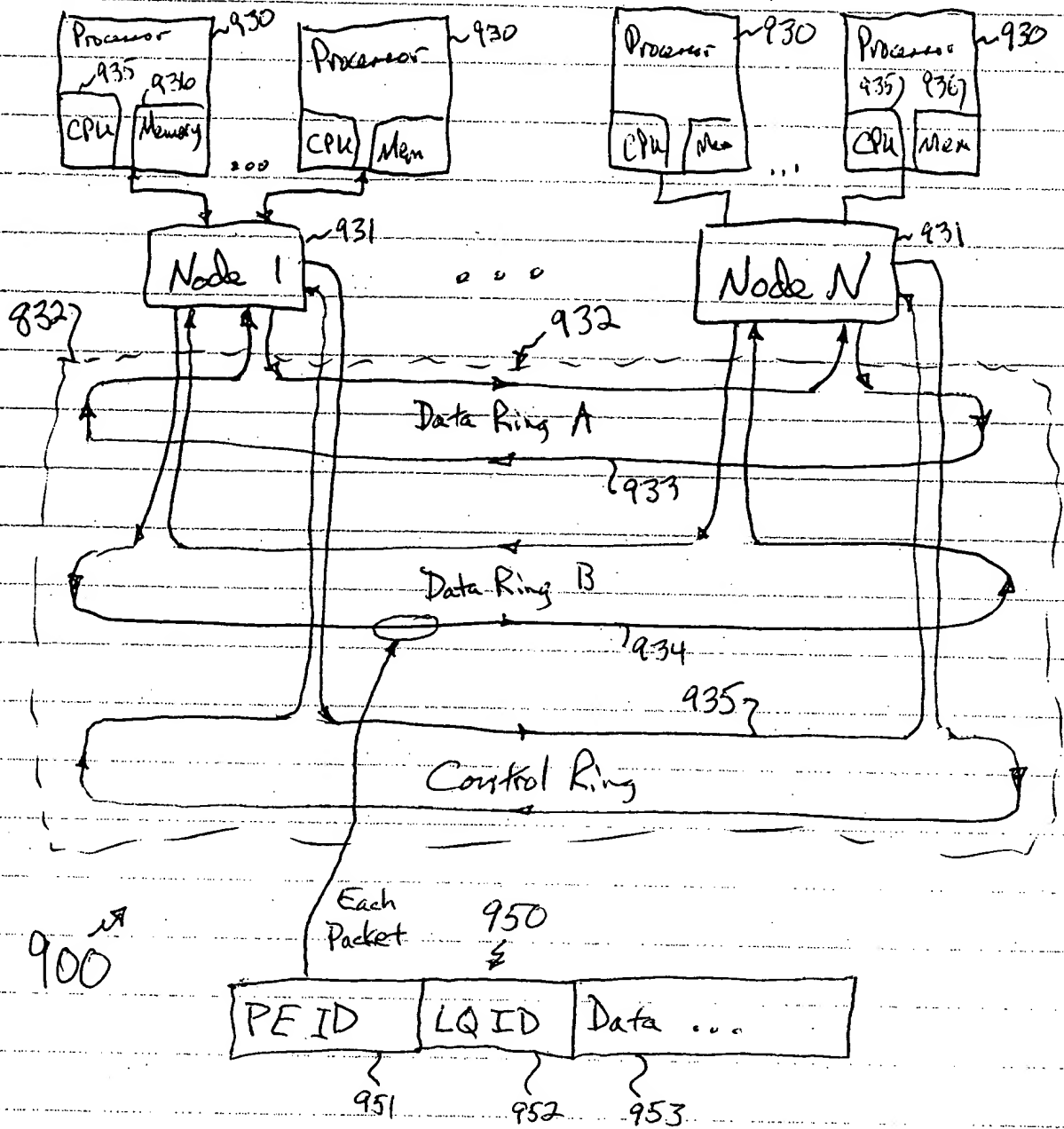


Fig. 10

10002

The diagram illustrates a network architecture for a Service Provider (SP) Backbone. The SP Backbone is represented by a cloud labeled "SP Backbone" with "OC3s" connections. It connects to two POPs (Points of Presence): "POP #1" and "POP #10".

Each POP connects to multiple Enterprise Sites and Headquarters via "T1" lines (56 Kbps). The connections are as follows:

- POP #1:**
 - Enterprise Site #1
 - Headquarters (Sun E250 w/ Firewall-1)
- POP #10:**
 - Enterprise Site #1
 - Headquarters (Sun E250 w/ Firewall-1)

Each Enterprise Site and Headquarters contains a "Router" and a "Checkpoint Appliance" connected by a "10/100baseT" link. A "Service Provider NOC" is also connected to the SP Backbone.

00ET60" 9E9T9960

FIG. 11

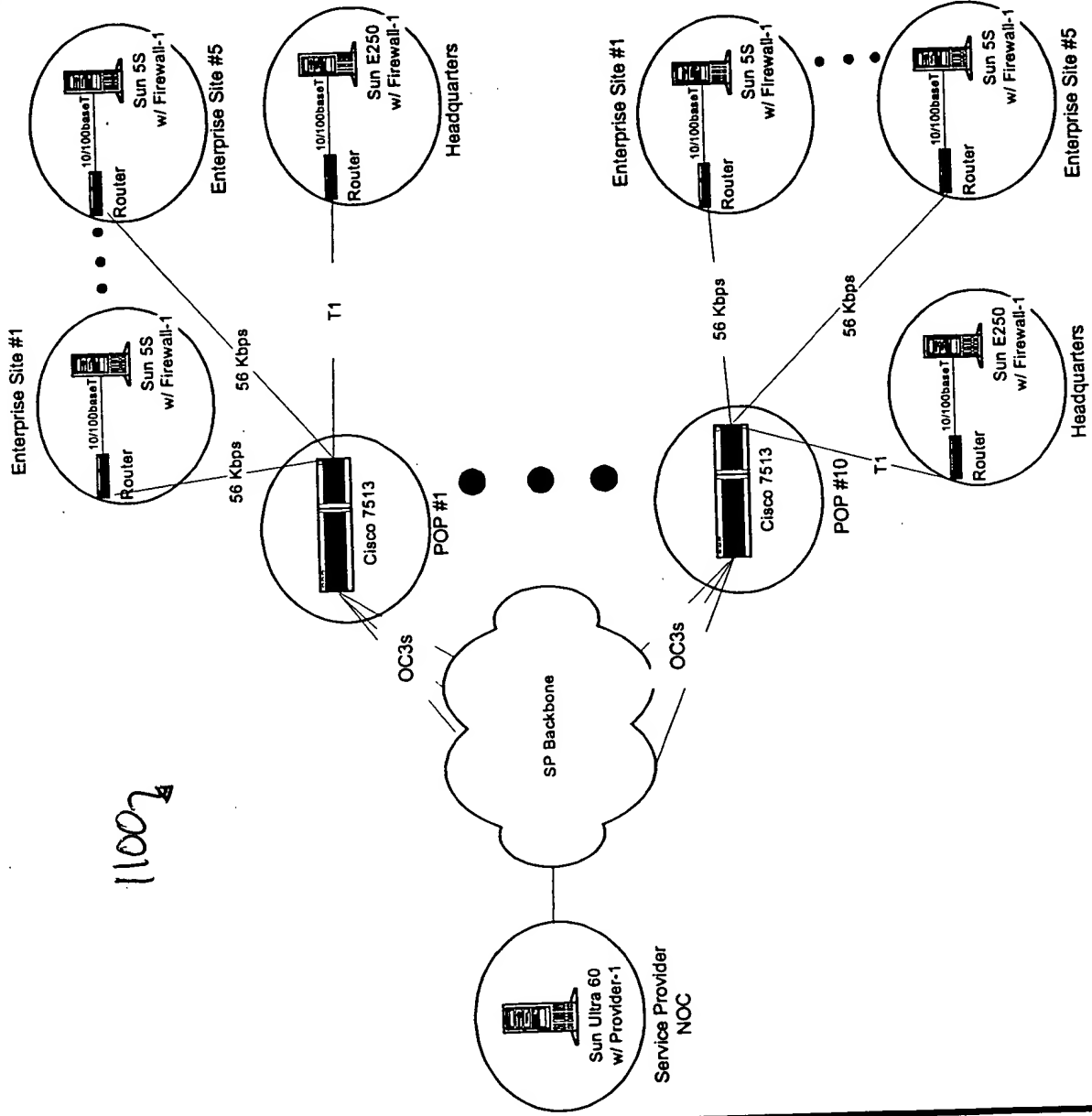


FIG. 13

13002

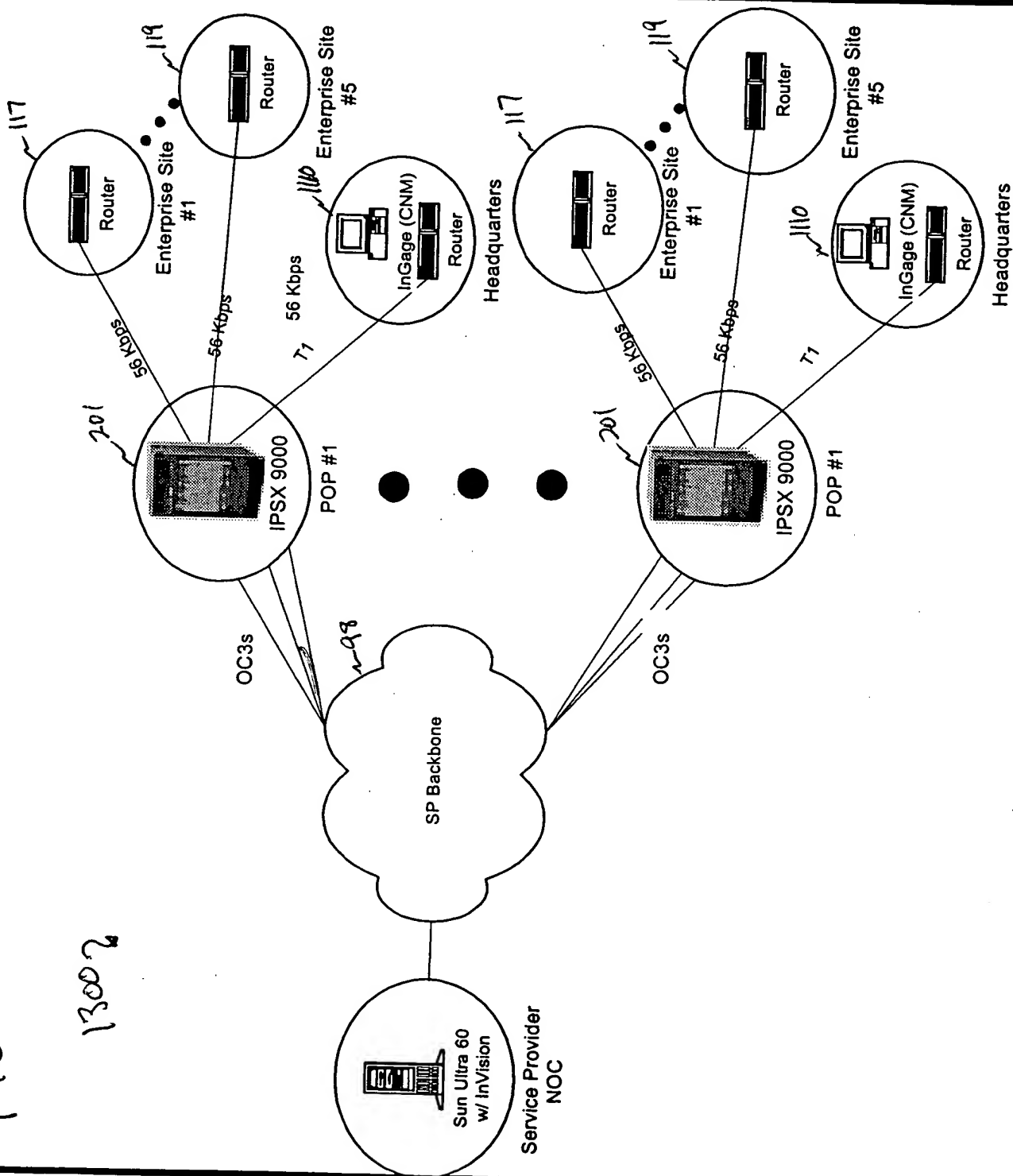


FIG. 14

14002

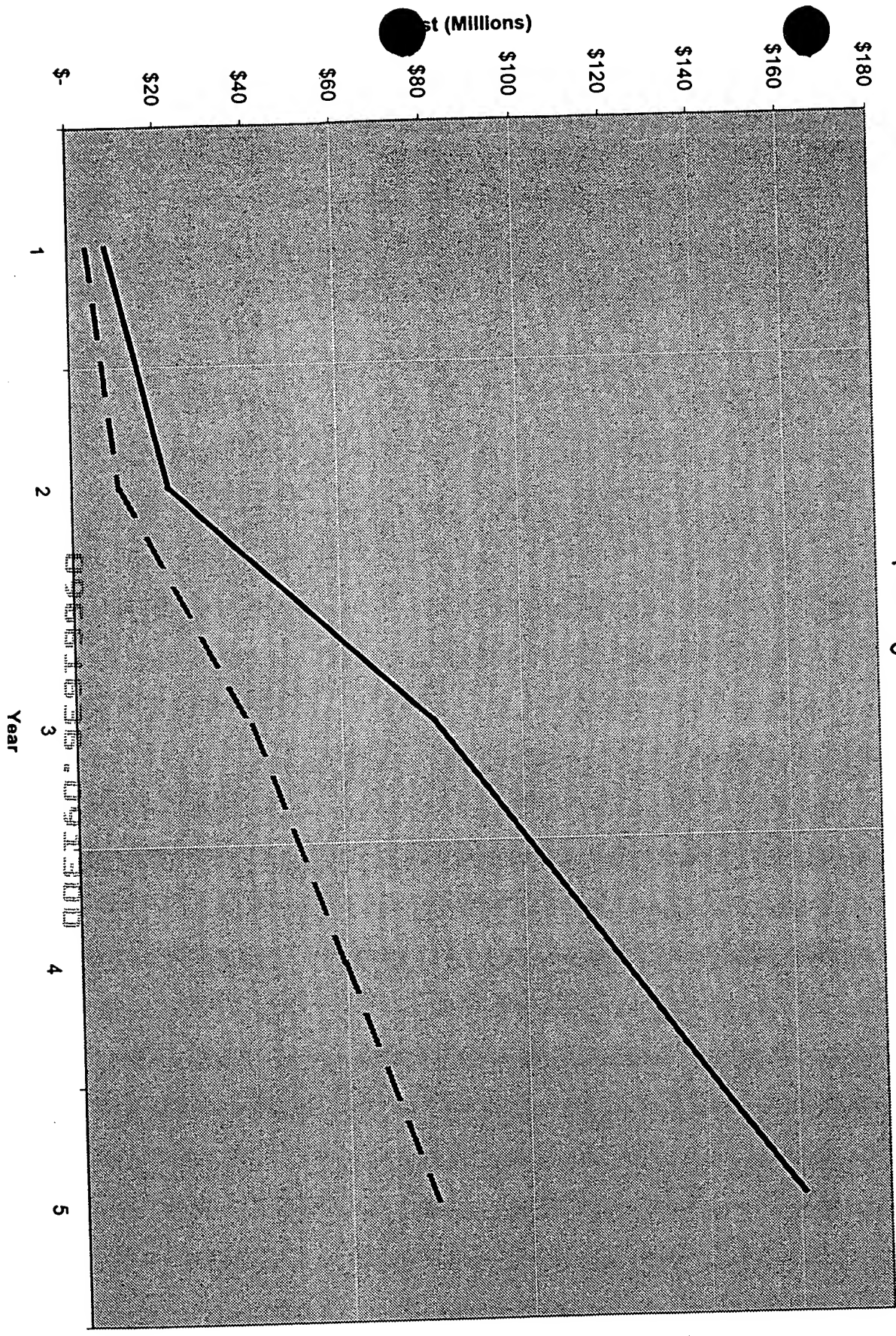
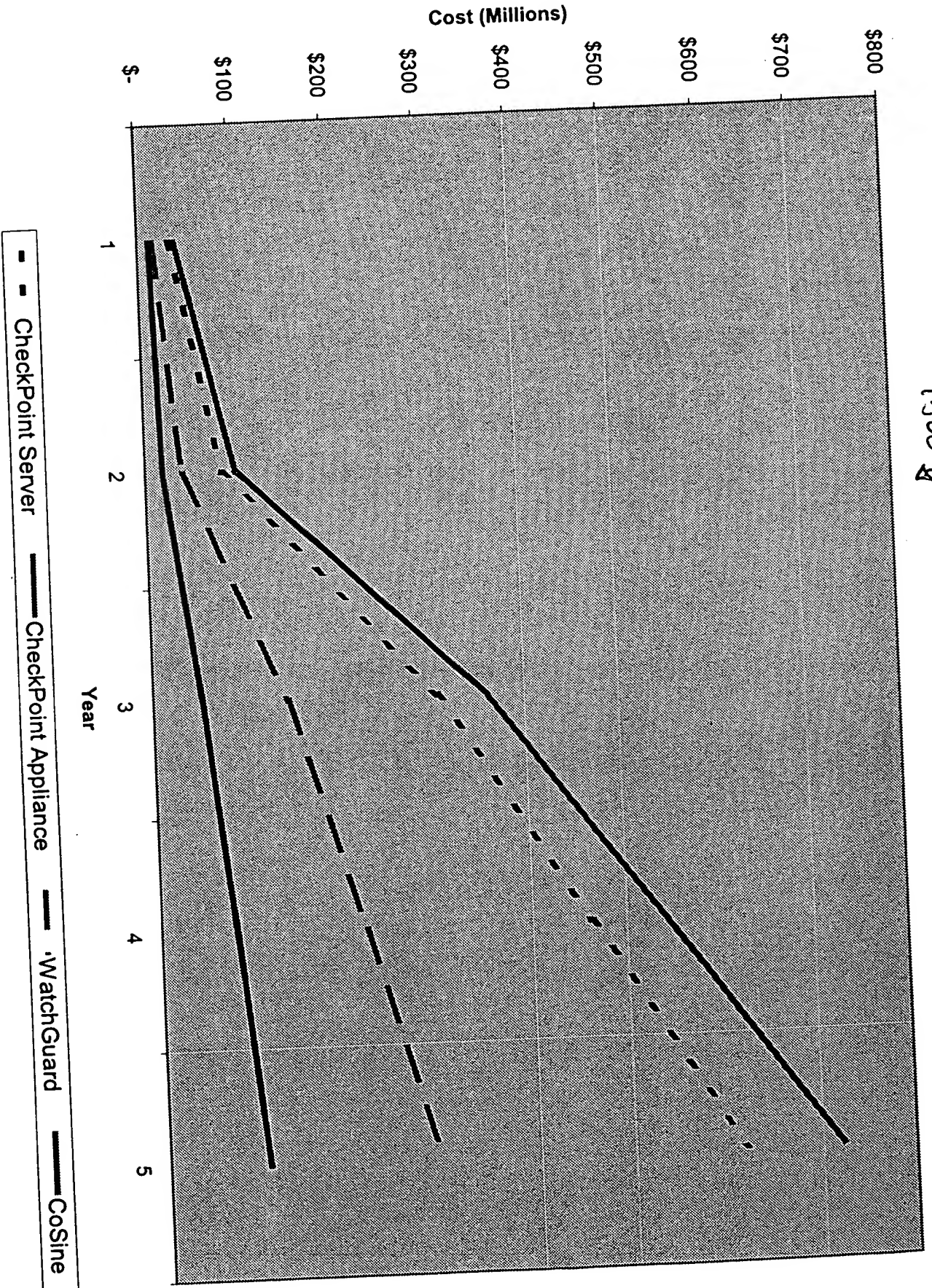


FIG. 15

150074



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